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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/595,551	06/16/2000	Basavaraj B. Patil	P1003	9790

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EXAMINER

LANIER, BENJAMIN E

ART UNIT	PAPER NUMBER
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2132

DATE MAILED: 08/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/595,551

Applicant(s)

PATIL ET AL.

Examiner

Benjamin E Lanier

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-37 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed 15 July 2005 amends claims 1, 11, 20, and 29. Applicant's amendment has been fully considered and is persuasive.

Response to Arguments

2. Applicant's arguments, filed 15 July 2005, with respect to the rejection(s) of claim(s) 1-37 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Pat R. Calhoun (IETF – "DIAMETER Mobile IP Extension").

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Pat R. Calhoun (IETF – "DIAMETER Mobile IP Extension"). Referring to claims 1, 11 Calhoun discloses a method for Authenticating, Authorization, and Accounting Policy Protocol that is used between two entities for various services wherein a mobile node is allowed to change its point of attachment to the Internet without service disruption (Pages 1-2). The mobile node has a foreign agent and a home agent, with a home server (Page 22, 4.1), wherein the foreign agent and the home agent communicate using a generated key (Page 14, 3.8), which meets the limitation of

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establishing at least one security association between the home network and the foreign network, wherein the home network has at least one home agent network server. The home network server generates a key for use between the foreign agent and the mobile node (Page 12, 3.5 & Page 23, 4.1, last paragraph), which meets the limitation of establishing at least one security association between the mobile node and the foreign network using a registration message to transmit a public key. A key is also generated for use between the mobile node and home agent (Pages 16-17, 3.11), which meets the limitation of encrypting in an information packet to be transmitted from the mobile node to the home network, transmitting the information packet from the mobile node using the security associations to support secure communications from the mobile node, decoding information from the encrypted information packet at the home network to retrieve the information. Before reaching the home agent the communication packet will be routed through a AAA server (Page 22, 4.1), which meets the limitation of routing the information packet through an AAA server performing authentication and accounting functions.

Referring to claims 20, 29, Calhoun discloses a method for Authenticating, Authorization, and Accounting Policy Protocol that is used between two entities for various services wherein a mobile node is allowed to change its point of attachment to the Internet without service disruption (Pages 1-2). The network contains a home network having a home agent server coupled to a router capable of directing information packets to and from the home network (page 22, 4.1), and a foreign network having a foreign agent coupled to a router capable of directing information packets to and from the foreign network and a transceiver capable of performing wireless communications with at least one mobile node in the transmission range of the transceiver for the foreign network. The mobile node has a foreign agent and a home agent,

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with a home server (Page 22, 4.1), wherein the foreign agent and the home agent communicate using a generated key (Page 14, 3.8), which meets the limitation of establishing at least one security association between the home network and the foreign network, wherein the home network has at least one home agent network server. The home network sever generates a key for use between the foreign agent and the mobile node (Page 12, 3.5 & Page 23, 4.1, last paragraph), which meets the limitation of establishing at least one security association between the mobile node and the foreign network using a registration message to transmit a public key. Before reaching the home agent the communication packet will be routed through a AAA server (Page 22, 4.1), which meets the limitation of routing the information packet through an AAA server performing authentication and accounting functions.

Referring to claims 3, 13, 22, 31, Calhoun discloses that the foreign agent and the mobile node communicate using a generated key (Page 12, 3.5), which meets the limitation of establishing a security association between the mobile node and a correspondent node.

Referring to claims 2, 4, 12, 14, 21, 23, 30, 32, Calhoun discloses that the foreign agent and the home agent communicate using a generated key (Page 14, 3.8), which meets the limitation of establishing a security association between the home network and a correspondent node.

Referring to claims 5, 6, 15, 16, 24, 25, 33, 34, Calhoun discloses using public and private key encryption (Page 23, 4.1, last paragraph).

Referring to claims 7, 17, the Diameter system framework described by Calhoun is designed for cellular systems.

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Referring to claims 8, 18, 26, 35, Calhoun discloses that security associations can be made with multiple foreign networks (Page 20, 3.16).

Referring to claims 9, 10, 19, 20, 27, 28, 36, 37, Calhoun discloses that system communications over the network conform to a specific security protocols (Pages 9-22), which meets the limitation of a service level agreement to manage the secure communication of information packets on the multiple security associations. The home AAA server oversees the conformity of the secure communication by authenticating registration requests and generating keys (Pages 22-25), which meets the limitation of a broker to assist in the use of service level agreements on the secure communications system.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Pat R. Calhoun – “Diameter Base Protocol”

Pat R. Calhoun – “Diameter Framework Document”

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

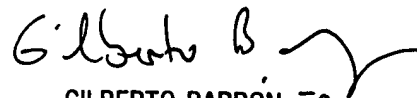
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin E. Lanier whose telephone number is 571-272-3805. The examiner can normally be reached on M-Th 7:30am-5:00pm, F 7:30am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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